100

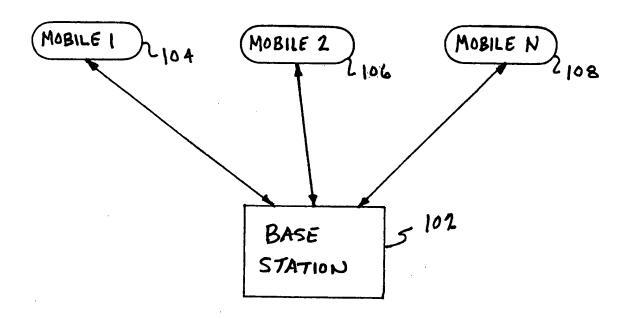
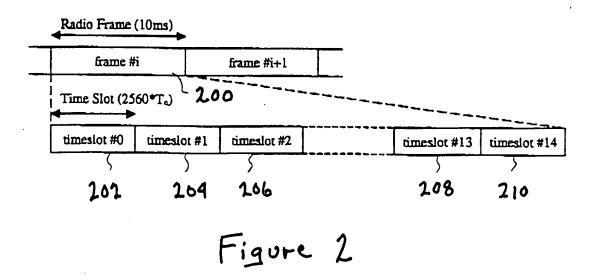


Figure 1

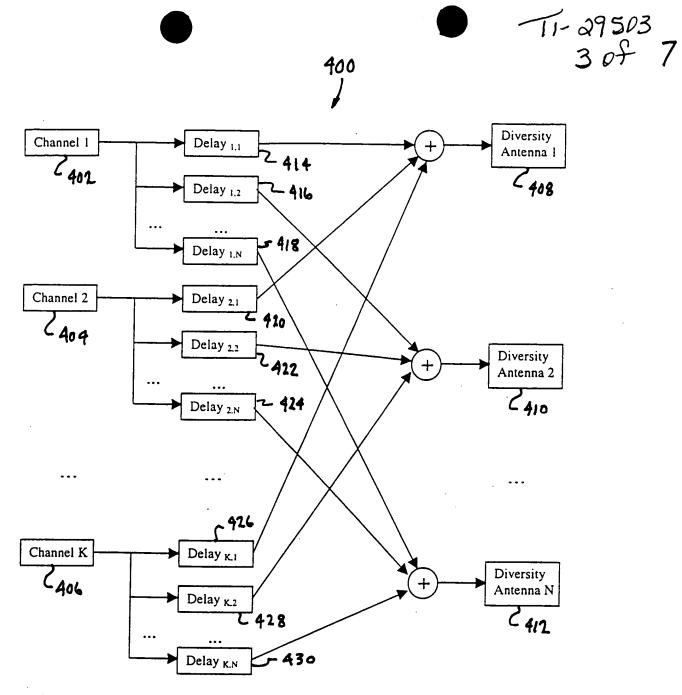
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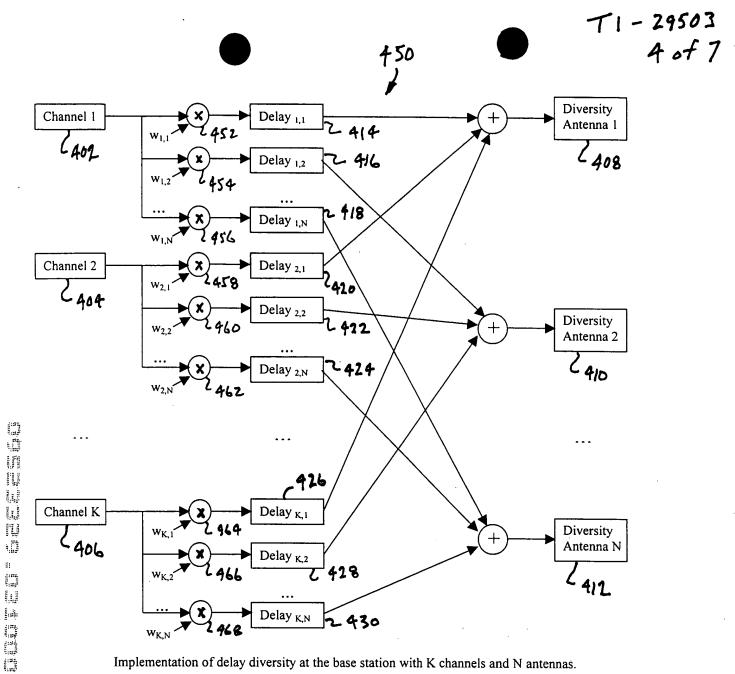
	Data symbols 1104 chips	<b>320</b>	Midamble 256 chips	Data symbols 1104 chips	324 5	GP 96 CP	
4			2560°T <sub>c</sub>	321		7	201
				<del></del>			276

Figure 3



Implementation of delay diversity at the base station with K channels and N antennas.

Figure 4a



Implementation of delay diversity at the base station with K channels and N antennas.

Figure 46

downlink channel K

1101

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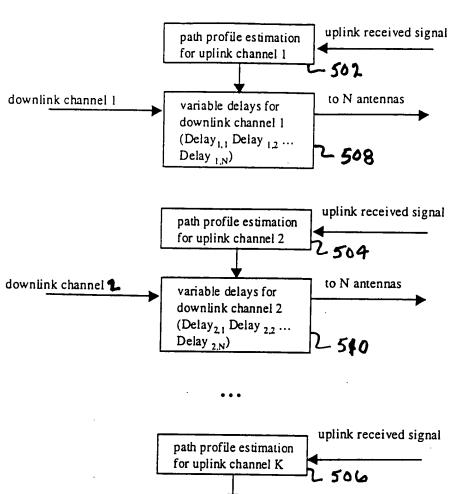


Figure 5: Method of choosing delays for each channel.

variable delays for downlink channel K (Delay<sub>K,1</sub> Delay<sub>K,2</sub> ... Delay<sub>K,N</sub>) to N antennas

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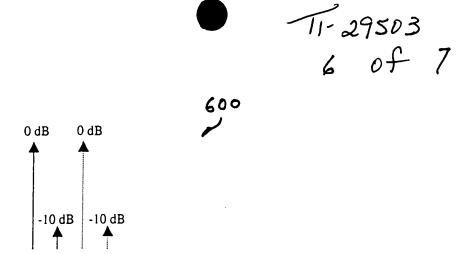
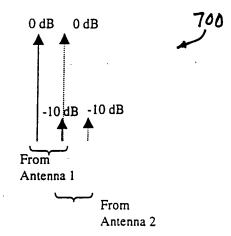


Figure 6: Delay profile at the mobile with delay of 2 chips between the two transmit antennas.

Antenna 1



Antenna 2

Figure 7: Delay profile at the mobile with delay of 1 chip between the two transmit antennas.

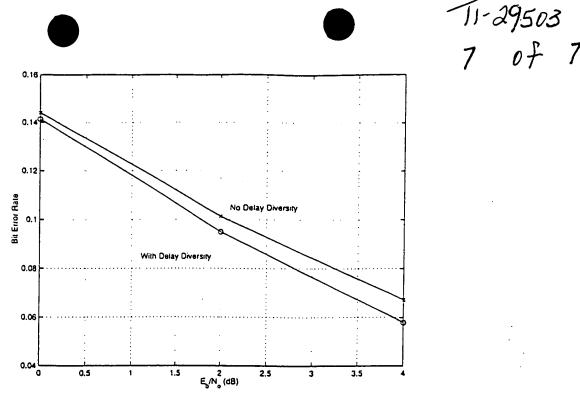


Figure 8: Link level simulations comparing the BER performance with and without delay diversity on the downlink using the Vehicular B channel model (120 kmph).

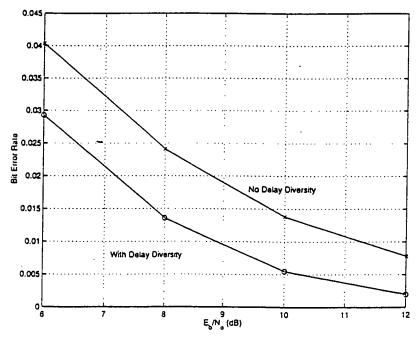


Figure 9: Link level simulations comparing the BER performance with and without delay diversity on the downlink using the Outdoor-to-Indoor and Pedestrian channel model (3 kmph).